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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/713,749	11/14/2000	Daniel M. LaFontaine	259/012	6224		
75	90 08/19/2003					
David T. Burse Bingham McCutchen LLP Three Embarcadero Center			EXAMI	EXAMINER		
			FARAH, AHMED M			
Suite 1800 San Francisco,	CA 94111-4067		ART UNIT	PAPER NUMBER		
,			3739	20		
			DATE MAILED: 08/19/2003	100		

Please find below and/or attached an Office communication concerning this application or proceeding.



OA-

# Office Action Summary

Application No. **09/713,749** 

Applicant(s)

LaFontaine et al.

Examiner

Ahmed M. Farah

Art Unit **3739** 



The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>three</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.							
- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the							
mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.							
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).							
- Any rep	by received by the Office later than three months after the mailing date o patent term adjustment. See 37 CFR 1.704(b).	f this communication	n, even if time	bly filed, may reduce any			
Status							
1) 💢	Responsive to communication(s) filed on Jul 14, 20	03					
2a) 🗌	This action is <b>FINAL</b> . 2b)   ✓ This acti	on is non-final					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposit	ion of Claims						
4) 💢	Claim(s) 64-70, 72-79, and 81-84		<del></del>	is/are pending in the application.			
4	a) Of the above, claim(s) 64-69			is/are withdrawn from consideratio			
5) 💢	Claim(s) 70 and 72-78			is/are allowed.			
6) 💢	Claim(s) <u>79 and 81-84</u>			is/are rejected.			
7) 🗆	Claim(s)	·		is/are objected to.			
8) 🗌	Claims		are subjec	t to restriction and/or election requirement			
Applica	tion Papers						
9) 💢	The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/ard	e a□ accept	ed or bD	objected to by the Examiner.			
	Applicant may not request that any objection to the di	rawing(s) be he	ld in abeya	nce. See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	i	s:aD a	pproved bild disapproved by the Examine			
	If approved, corrected drawings are required in reply t	o this Office ac	tion.				
12)	The oath or declaration is objected to by the Exami	ner.					
Priority under 35 U.S.C. §§ 119 and 120							
13)□	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) 🗆	] All b)□ Some* c)□ None of:						
	1. $\square$ Certified copies of the priority documents hav	e been receive	ed.				
;	2. $\square$ Certified copies of the priority documents hav	e been receive	d in Appli	cation No			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
	ee the attached detailed Office action for a list of the						
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachm	ent(s) tice of References Cited (PTO-892)	4) Interview C	ımmanı (PTO.	413) Paper No(s).			
	tice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s).  5) Notice of Informal Patent Application (PTO-152)					
	3) N Information Disclosure Statement(s) (PTO-1449) Paper No(3). and 1 6) Other:						
A6		_					

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#### **DETAILED ACTION**

## Specification

- The abstract of the disclosure is objected to because it exeeds 150 word.
   Correction is required. See MPEP § 608.01(b).
- 2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

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#### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 79 and 81 are rejected under 35 U.S.C. 102(b) as being anticipated by Qian U.S. Patent No. 5,047,028.

Qian discloses apparatus and method for creating thrombosis of vessel under the surface of a body cavity, the method comprising the steps of:

inserting the distal portion of tubular member 10 into the patient's body, the distal portion comprising an expandable member (balloon 12) in a collapsed condition (see the abstract; Col. 1, lines 18-23; Col. 2, lines 8-10; and claim 1), and an electrode (conducting wire 16 connected to an external electrode 20) within an interior space of the expandable member;

positioning the distal portion of the tubular member proximate a target site (Col. 2, lines 10-11);

directing electrolyte fluid through the lumen of the tubular member and into the interior space of the expandable member (Col. 2, lines 11-15); and

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energizing the electrode with electrical energy, thereby transferring electrical energy from the electrode through the expandable member via the electrolyte fluid to ablate the target site (see claim 9),

wherein the expandable member comprises a plurality of perforations (semipermeable wall) through which the electrolyte fluid flows to the target site (Col. 2, lines 15-19).

In this Office Action, the word **ablation** is defined as 'the surgical excision or amputation of body part or tissue by cutting, <u>heating/coagulating</u>, and/or removing body tissue using mechanical (i.e., ultrasound), electrical and/or optical energy. This interpretation is in line with the common use of the word 'ablation' in the relevent art.

Furthermore, the word **thrombosis** is defined as "the formation, presence, or development of a thrombus (A fibrinous **clot** formed in a blood vessel<sup>1</sup>); the word **clot** is defined as "a thick, viscous, or **coagulated** mass or lump, as of blood; " and the word **coagulate** is defined as 'the phase transformation of (a liquid or sol, for example) into a soft, semisolid or solid mass, which results from heating or cooling the mass (a biological tissue in this case).'

Therefor, since thromboses results from a coagulated/ablated tissue, Qian teaches a method for ablating body tissue as presently claimed.

As to claim 81, the expandable member (balloon 12) of Qian is expanded as the electrolytic fluid is directed into its interior space (Col. 2, lines 13-15).

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5. Claims 82-84 are rejected under 35 U.S.C. 102(b) as being anticipated by Rexroth et al. U.S. Patent No. 4,943,290.

Rexroth et al. disclose electrosurgical apparatus for ablating (cutting or coagulating) body tissue (Col. 7, lines 53-56), the apparatus comprising:

a source of RF energy (power source 12);

a catheter having a proximal portion attachable to a source of fluid **14** (conductive/non-conductive fluid), a distal portion sized for insertion into a patient' body, and a lumen **18** for delivering fluid from the proximal portion to the distal portion (see **Fig. 1**);

a porous member **72** disposed at the distal portion of the catheter, the porous member defining interior region in communication with lumen **18**, the interior region capable for receiving fluid (conductive/non-conductive fluid) delivered from the proximal end; and

an electrode **60** disposed in the interior region of lumen **18** and coupled to the source of the RF energy.

As to claim 83, the most distal end **62** of the electrode extends from the distal portion of the catheter.

As to claim 84, the porous member **72** has a substantial planer distal end as presently claimed.

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## Allowable Subject Matter

6. Claims 70, 72-78 are allowed. The prior art of record fails to teach or suggest a device for ablating body tissue using an RF energy as presently claimed, the device comprising an expandable member disposed on the distal porion of the catheter and comprising a substantially planner distal end, the expandable member defining an interior region in communication with the lumen, whereby RF energy may be transferred from the electrode to selected tissue areas in a patient's body via electrolyte fluid delivered through the lumen and into the interior region of the expandable member.

#### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the following references:
- U.S. Patent No. 4,979,948 to Geddess et al. teaches method and apparatus for thermally destroying a layer of an organ. Their apparatus comprises a catheter **100**, which includes an elongated member **103** with a <u>current-emitting electrode</u> **104** positioned on the distal end of the catheter <u>for emitting RF energy</u> to the organ.
- U.S. Patent No. 5,460,628 to Neuwirth et al. discloses a method and apparatus for ablating body tissue, the apparatus comprising an elongated catheter body 1 having a proximal portion attachable to a fluid source (conductive and/or non-conductive), a distal end sized for insertion into a patient's body, and lumen for delivering fluid from

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the proximal portion to the distal portion; an expandable member 5 disposed on the

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distal end of the catheter, the expandable member comprising a substantially planer

distal end; and an electrode 44 for heating a fluid within the expandable member. Their

system is not designed to transfer RF energy from the electrode to selected tissue in a

patient's body via electrolyte fluid (conductive fluid) delivered through the catheter and

into the interior region of the expandable member.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to A. Farah whose telephone number is (703) 305-5787. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Linda Dvorak, can be reached on (703) 308-0994. The official fax number

for the group is (703) 872-9302; the fax number for After Final is (703) 872-9303; and

the Examiner's Desk-top fax is (703) 746-3368.

A. M. Farah

Patent Examiner (Art Unit 3739)

August 11, 2003

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